

Name:

Level 10
Unit 29.1**Measures of Central
Tendency and the Range**Complete 3 pages (235 - 237) within
9 minutes with > 95% accuracy.

Time Taken:..... Total Score:.....

ExampleMean, median, and mode are measures of central tendency.

What will be the mean, median, and mode of the given data?

25, 27, 26, 26, 23, 29, 26

Mean: Sum of all data
divide by the number of
all data items. We also
call it the average.

$$\begin{aligned}\text{Mean} &= (25 + 27 + 26 + \\ &26 + 23 + 29 + 26) \div 7 \\ &= 182 \div 7 \\ &= 26\end{aligned}$$

$$\therefore \text{Mean} = 26$$

Median: The middle
number of the data
arranged in numerical
order 23, 25, 26, **26**,
26, 27, 29.
$$\therefore \text{The middle number is } 26.$$

$$\therefore \text{Median} = 26$$

Mode: The number of
that occurs most after in
the data. 26 come 3
times.

$$\therefore 26 \text{ is mode.}$$

$$\therefore \text{Mode} = 26$$

In case of median; if the data has an even number of items, then the median is the average of the two middle numbers.

Range: The difference between the greatest number and smallest number is the range. Greatest number (L) = 29

Smallest number (S) = 23

$$\therefore \text{Range} = L - S = 29 - 23 = 6$$

Exercise

1. Find mean, median, mode, and range.

a) 35, 31, 33, 32, 31, 28

b) 34, 13, 10, 11, 6, 8, 12, 13

Measures of Central Tendency and the Range

Exercise

2. What will be the value of the range if the data is widely spread out?

3. Write a set of five data for each of the following.

a) Mean = 29

b) Range = 5

c) Mode = 12

d) Median = 107

e) Mean and mode = 305

f) Mean = 7 and range = 12

4. Use the table given and answer the questions.

a) What is the mean grade?

b) What will be modal grade of the data?

c) Find range of the grades.

Student name	Grade Earned
Jack	20
John	40
Jolly	35
Rose	40
Kelly	55
Kim	68